

# **Analisis Kualitas Koneksi Antara *Wireless Protocol Nstreme* dan *Nstreme version 2 (Nv2)* Pada *Wireless Mikrotik***

**Setyan Adi Cahya<sup>1</sup>, Indrastanti R. Widiarsari<sup>2</sup>**

Fakultas Teknologi Informasi, Universitas Kristen Satya Wacana  
Jalan Dr. O. Notohamidjodjo, Blotongan, Sidorejo, Kota Salatiga, 50715  
E-mail: setyancahya711997@gmail.com<sup>1</sup>, indrastanti@uksw.edu<sup>2</sup>

## **Abstract**

*The development in communication scope nowadays creates many brand-new creations of technology. One of them is wireless network technology (nirkabel) which is beneficial in the way of data sending to obtain the maximum result. Mikrotik is a company which develops the wireless protocol named Nstreme and Nstreme version 2 (Nv2). Those wireless protocols which have been developed by proxy each have different quality connections. Therefore, the aims of conducting this research is to analyze the quality of the connection between the wireless protocol Nstreme and Nstreme version 2 (Nv2) on wireless Mikrotik. to determine the causes of the difference quality of the connection between those two protocols. This research was conducted by a method "point to point" using a Mikrotik wireless router board device sxt lite5 5GHz as the medium. By having the analysis result of QoS measurements and signal quality, it will recognize the causes of the difference in connection quality. Where the Nstreme protocol acquires a better SNR value rather than the Nv2 protocol, it is by reason of the interference received by the Nstreme protocol is lower than the Nv2 protocol. As its end, it concludes that the Nstreme protocol connection stability is better than Nv2 protocol.*

**Keyword:** *Nstreme, Nstreme version 2 (Nv2), QoS, Signal quality, Wireless*

## **Abstrak**

Perkembangan komunikasi saat ini membuat terciptanya teknologi baru, salah satunya teknologi jaringan nirkabel (*wireless*) yang digunakan untuk memenuhi kebutuhan dalam berkirim data agar memperoleh hasil yang maksimal. Mikrotik merupakan perusahaan yang mengembangkan *wireless* protokol *Nstreme* dan *Nstreme version 2 (Nv2)*. *Wireless* protokol yang dikembangkan mikrotik masing – masing memiliki kualitas koneksi yang berbeda. Tujuan dari penelitian yang dilakukan yaitu menganalisis kualitas koneksi antara *wireless* protokol *Nstreme* dan *Nstreme version 2 (Nv2)* pada *wireless* mikrotik, untuk mengetahui penyebab perbedaan kualitas koneksi antara kedua protokol. Penelitian ini dilakukan dengan cara *point to point* menggunakan perangkat mikrotik *wireless routerboard sxt lite5 5GHz*. Dari hasil analisis pengukuran *QoS* dan kualitas sinyal, maka diketahui penyebab perbedaan kualitas koneksi. Dimana protokol *Nstreme* memperoleh nilai *SNR* yang lebih baik dibandingkan protokol *Nv2*, hal ini disebabkan gangguan yang diterima protokol *Nstreme* lebih rendah daripada protokol *Nv2* sehingga kestabilan koneksi protokol *Nstreme* lebih baik daripada protokol *Nv2*.

**Kata kunci:** *Kualitas sinyal, Nstreme, Nstreme version 2 (Nv2), QoS, Wireless*

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<sup>1</sup> Mahasiswa Fakultas Teknologi Informasi Program Studi Teknik Informatika, Universitas Kristen Satya Wacana Salatiga

<sup>2</sup> Pengajar Fakultas Teknologi Informasi, Universitas Kristen Satya Wacana Salatiga.